

UNCLASSIFIED

Exhibit P-40, Budget Line Item Justification: PB 2015 Navy								Date: March 2014				
Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment							P-1 Line Item Number / Title: 2925 / CANES Intell					
ID Code (A=Service Ready, B=Not Service Ready) : A			Program Elements for Code B Items:					Other Related Program Elements: 0303138N				
Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	77.423	62.586	55.262	65.015	-	65.015	28.920	51.799	48.670	48.316	682.967	1,120.958
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	77.423	62.586	55.262	65.015	-	65.015	28.920	51.799	48.670	48.316	682.967	1,120.958
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	77.423	62.586	55.262	65.015	-	65.015	28.920	51.799	48.670	48.316	682.967	1,120.958
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Flyaway Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-
# The FY 2015 OCO Request will be submitted at a later date.												
Description:												
Consolidated Afloat Networks & Enterprise Services (CANES) is the Navy's only Program of Record to replace existing afloat networks and provide the necessary infrastructure for applications, systems, and services to dominate the cyber warfare domain. CANES is the technical and infrastructure consolidation of existing, separately managed afloat networks including Integrated Shipboard Network Systems (ISNS), Combined Enterprise Regional Information Exchange System - Maritime, Sensitive Compartmented Information (SCI) Networks, and Submarine Local Area Network. These legacy afloat network designs are currently End of Life and CANES will replace these unaffordable and obsolete networks.												
The fundamental goal of CANES is to bring Infrastructure and Platform as a Service (IaaS / PaaS), within which current and future iterations of Tasking, Collection, Processing, Exploitation and Dissemination computing and storage capabilities will reside. CANES will provide complete infrastructure, inclusive of hardware, software, processing, storage, and end user devices for Unclassified, Coalition, Secret and SCI for all basic network services (email, web, chat, collaboration) to a wide variety of Navy surface combatants, submarines, Maritime Operations Centers, Regional Network Operations and Security Centers (RNOSCs) and Aircraft. In addition, ~36 hosted applications and systems inclusive of Command and Control, Intelligence, Surveillance and Reconnaissance, Information Operations, Logistics and Business domains require the CANES infrastructure to operate in the tactical environment. Integrating these applications and systems is accomplished through Application Integration, the engineering process used to evaluate and validate compatibility between the CANES IaaS / PaaS and the Navy-validated applications, systems and services that will utilize the CANES infrastructure and services. Specific programs, such as Distributed Common Ground System - Navy, Global Command and Control System - Maritime, Naval Tactical Command Support System, and Undersea Warfare Decision Support System, are dependent on the CANES Common Computing Environment to field, host, and sustain their capability because they no longer provide their own hardware. CANES equires that Automated Digital Network System (ADNS) field prior to or concurrently with CANES due to architectural reliance between the two programs.												
CANES will develop updates on a rolling four year hardware baseline and a two year software baseline. Fielding of rolling baselines will occur every eight years for hardware and four years for software. CANES is based on the overarching concept of reducing the number of afloat networks and providing enhanced efficiency through a single engineering focus on integrated technical solutions. This will allow for streamlined acquisition, contracting, and test events, and significant lifecycle efficiencies through consolidation of multiple current configuration management baselines, logistics, and training efforts into a unified support structure.												
Cooperative Maritime Forces Pacific (CMFP) network supports secure coalition interoperability and information exchange at the secret-releasable level.												

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Appropriation / Budget Activity / Budget Sub Activity: 1810N: Other Procurement, Navy / BA 02: Communications & Electronics Equip / BSA 10: Other Shore Electronic Equipment										P-1 Line Item Number / Title: 2925 / CANES Intell									
ID Code (A=Service Ready, B=Not Service Ready) : A					Program Elements for Code B Items:					Other Related Program Elements: 0303138N									

Exhibits Schedule		ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total		
Title*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Item - 1 / CANES Intell	P-5		-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-3a - 1 / CANES-Afloat 5G010/5G777 MIP	P-3a		-	-	73.142	-	-	62.024	-	-	54.312	-	-	65.015	-	-	-	-	-	65.015
P-3a - 2 / CANES - Ashore 5G010/5G776 MIP	P-3a		-	-	3.231	-	-	0.562	-	-	0.950	-	-	-	-	-	-	-	-	-
Total Gross/Weapon System Cost			-	-	77.423	-	-	62.586	-	-	55.262	-	-	65.015	-	-	-	-	-	65.015

Exhibits Schedule		ID CD	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total		
Title*	Exhibits		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Item - 1 / CANES Intell	P-5		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
P-3a - 1 / CANES-Afloat 5G010/5G777 MIP	P-3a		-	-	27.602	-	-	47.271	-	-	42.003	-	-	45.101	-	-	634.884	-	-	1,051.354
P-3a - 2 / CANES - Ashore 5G010/5G776 MIP	P-3a		-	-	1.318	-	-	4.528	-	-	6.667	-	-	3.215	-	-	48.083	-	-	68.554
Total Gross/Weapon System Cost			-	-	28.920	-	-	51.799	-	-	48.670	-	-	48.316	-	-	682.967	-	-	1,120.958

*For Items, Title represents the Item Number / Title [DODIC]. For the P-3a, Title represents the Modification Number / Title.

Note: Totals in this Exhibit P-40 set may not be exact or add due to rounding.

Justification:

FY 2015 - CANES funds are for procurement of (33) production units, (2) First Articles, integration, and associated costs for pre-installation design. In addition, the FY15 CANES investment will fund installations for (25) afloat units.

The related RD TEN PE is CANES Integration PE 0303138N. It is important to note, procurement quantities across the FYDP are the same CANES end item product referenced in CANES LI 2915. Installation quantities represent sites receiving CANES as also referenced in LI 2915. The associated dollars in this exhibit represent the MIP portions of the CANES enclave.

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Exhibit P-5, Cost Analysis: PB 2015 Navy										Date: March 2014									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2925 / CANES Intell					Item Number / Title [DODIC]: 1 / CANES Intell									
Resource Summary		Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total						
Procurement Quantity <i>(Units in Each)</i>		-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Cost <i>(\$ in Millions)</i>		1.050	-	-	-	-	-	-	-	-	-	-	-						
Less PY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-						
Net Procurement (P1) <i>(\$ in Millions)</i>		1.050	-	-	-	-	-	-	-	-	-	-	-						
Plus CY Advance Procurement <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-						
Total Obligation Authority <i>(\$ in Millions)</i>		1.050	-	-	-	-	-	-	-	-	-	-	-						
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)																			
Initial Spares <i>(\$ in Millions)</i>		-	-	-	-	-	-	-	-	-	-	-	-						
Gross/Weapon System Unit Cost <i>(\$ in Thousands)</i>		-	-	-	-	-	-	-	-	-	-	-	-						
# The FY 2015 OCO Request will be submitted at a later date.																			
Cost Elements	ID CD	Prior Years			FY 2013			FY 2014			FY 2015 Base			FY 2015 OCO			FY 2015 Total		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																			
Non Recurring Cost																			
1.1.1) Cooperative Maritime Forces Pacific (CMFP)		-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost		-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost		-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost		-	-	1.050	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost Elements	ID CD	FY 2016			FY 2017			FY 2018			FY 2019			To Complete			Total Cost		
		Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)	Unit Cost (\$ K)	Qty (Each)	Total Cost (\$ M)
Hardware Cost																			
Non Recurring Cost																			
1.1.1) Cooperative Maritime Forces Pacific (CMFP)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Non Recurring Cost		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Subtotal: Hardware Cost		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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Exhibit P-5, Cost Analysis: PB 2015 Navy		Date: March 2014
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Item Number / Title [DODIC]: 1 / CANES Intell

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Exhibit P-3a, Individual Modification: PB 2015 Navy								Date: March 2014			
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell				Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP			

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (Units in Each)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ in Millions)	73.142	62.024	54.312	65.015	-	65.015	27.602	47.271	42.003	45.101	634.884	1,051.354
Less PY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ in Millions)	73.142	62.024	54.312	65.015	-	65.015	27.602	47.271	42.003	45.101	634.884	1,051.354
Plus CY Advance Procurement (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ in Millions)	73.142	62.024	54.312	65.015	-	65.015	27.602	47.271	42.003	45.101	634.884	1,051.354
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ in Millions)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ in Thousands)	-	-	-	-	-	-	-	-	-	-	-	-

[#] The FY 2015 OCO Request will be submitted at a later date.

Description:

The consolidation of existing Afloat Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and the eventual addition of Afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services. In addition, migration of Non-Classified Enclave (NCE) capabilities into the CANES baseline.

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Exhibit P-3a, Individual Modification: PB 2015 Navy								Date: March 2014					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell				Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP					
Models of Systems Affected: Consolidated Afloat Networks & Enterprise Services (CANES) MIP				Modification Type: [No Modification Type Specified]				Related RDT&E PEs: 0303238N					
Financial Plan	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total	
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	
Procurement													
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP													
B Kits													
Recurring													
1.1.1) CANES - Afloat Production Units - MIP - NonOrganic ⁽¹⁾	8 / 33.713	22 / 38.851	20 / 26.156	33 / 32.260	- / -	33 / 32.260	15 / 10.533	16 / 13.496	20 / 14.449	14 / 10.694	24 / 28.658	172 / 208.810	
1.1.2) CANES Afloat Technical Insertion - MIP - NonOrganic ⁽²⁾	- / -	- / -	- / -	- / -	- / -	- / -	8 / 2.875	21 / 11.655	18 / 9.117	34 / 16.896	362 / 384.225	443 / 424.768	
Subtotal: Recurring	- / 33.713	- / 38.851	- / 26.156	- / 32.260	- / -	- / 32.260	- / 13.408	- / 25.151	- / 23.566	- / 27.590	- / 412.883	- / 633.578	
Non-Recurring													
1.2.1) CANES - Afloat First Articles - MIP - Organic ⁽³⁾	5 / 26.201	2 / 3.216	3 / 7.524	2 / 1.849	- / -	2 / 1.849	1 / 0.930	- / -	- / -	- / -	- / -	13 / 39.720	
1.2.2) CANES-Non-Recurring Engineering (MIP) - Organic ⁽⁴⁾	- / 4.732	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / 4.732	
Subtotal: Non-Recurring	- / 30.933	- / 3.216	- / 7.524	- / 1.849	- / -	- / 1.849	- / 0.930	- / -	- / -	- / -	- / -	- / 44.452	
Subtotal: CANES-Afloat 5G010/5G777 MIP	13 / 64.646	24 / 42.067	23 / 33.680	35 / 34.109	- / -	35 / 34.109	24 / 14.338	37 / 25.151	38 / 23.566	48 / 27.590	386 / 412.883	628 / 678.030	
Subtotal: Procurement, All Modification Items	- / 64.646	- / 42.067	- / 33.680	- / 34.109	- / -	- / 34.109	- / 14.338	- / 25.151	- / 23.566	- / 27.590	- / 412.883	- / 678.030	
Support (All Modification Items)													
2.1) CANES - Afloat Production Support (MIP)	- / 1.686	- / 2.045	- / 1.377	- / 1.698	- / -	- / 1.698	- / 0.706	- / 1.324	- / 1.240	- / 1.452	- / 21.731	- / 33.259	
2.2) CANES - Afloat Design Service Agent (MIP)	- / 2.746	- / 2.481	- / 2.241	- / 2.337	- / -	- / 2.337	- / 0.617	- / 1.353	- / 1.073	- / 1.314	- / 1.464	- / 15.626	
Subtotal: Support	- / 4.432	- / 4.526	- / 3.618	- / 4.035	- / -	- / 4.035	- / 1.323	- / 2.677	- / 2.313	- / 2.766	- / 23.195	- / 48.885	
Installation													
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP	- / 4.064	- / 15.431	- / 17.014	- / 26.871	- / -	- / 26.871	- / 11.941	- / 19.443	- / 16.124	- / 14.745	- / 198.806	- / 324.439	
Subtotal: Installation	- / 4.064	- / 15.431	- / 17.014	- / 26.871	- / -	- / 26.871	- / 11.941	- / 19.443	- / 16.124	- / 14.745	- / 198.806	- / 324.439	
Total													
Total Cost (Procurement + Support + Installation)	73.142	62.024	54.312	65.015	-	65.015	27.602	47.271	42.003	45.101	634.884	1,051.354	

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Exhibit P-3a, Individual Modification: PB 2015 Navy							Date: March 2014					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell				Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP				
Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP												
Modification Item MDAP/MAIS Code:												
Manufacturer Information												
Manufacturer Name: Northrop Grumman Systems Corp.							Manufacturer Location: >Herndon, VA					
Administrative Leadtime (in Months): 0							Production Leadtime (in Months): 5					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates	Oct 2012											
Delivery Dates	Mar 2013											
Manufacturer Name: TBD ⁽⁵⁾							Manufacturer Location: >TBD					
Administrative Leadtime (in Months): 5							Production Leadtime (in Months): 6					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates		Mar 2014										
Delivery Dates		Sep 2014										
Manufacturer Name: TBD ⁽⁶⁾							Manufacturer Location: >TBD.					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 6					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates			Nov 2014									
Delivery Dates			May 2015									
Installation Information												
Method of Implementation: [none specified] : Installation Name: CANES - Afloat Production Units - MIP												
Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	1 / 4.064	7 / 7.605	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	8 / 11.669
FY 2013	- / -	5 / 7.826	17 / 13.298	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	22 / 21.124
FY 2014	- / -	- / -	6 / 3.716	14 / 19.144	- / -	14 / 19.144	- / -	- / -	- / -	- / -	- / -	20 / 22.860
FY 2015	- / -	- / -	- / -	11 / 7.727	- / -	11 / 7.727	22 / 10.432	- / -	- / -	- / -	- / -	33 / 18.159
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	3 / 1.456	12 / 10.235	- / -	- / -	- / -	15 / 11.691
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	4 / 6.085	12 / 8.946	- / -	- / -	16 / 15.031
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 4.649	14 / 9.127	- / -	20 / 13.776
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 1.011	12 / 6.066	14 / 7.077
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	24 / 22.231	24 / 22.231
Total	1 / 4.064	12 / 15.431	23 / 17.014	25 / 26.871	- / -	25 / 26.871	25 / 11.888	16 / 16.320	18 / 13.595	16 / 10.138	36 / 28.297	172 / 143.618

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Exhibit P-3a, Individual Modification: PB 2015 Navy										Date: March 2014									
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10					P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP									

Modification Item 1 of 1: CANES-Afloat 5G010/5G777 MIP

Modification Item MDAP/MAIS Code:

Installation Information

Method of Implementation: [none specified] : Installation Name: CANES - Afloat Production Units - MIP

Installation Schedule

	PYS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	1	-	4	6	2	7	5	6	4	3	8	8	6	9	8	6	2	6	1	5	4	5	6	4	4	5	2	6	39	172
Out	-	-	-	1	2	5	6	6	1	6	5	5	6	10	7	6	8	8	3	6	1	5	3	5	6	2	3	6	5	45	172

Method of Implementation: [none specified] : Installation Name: CANES Afloat Technical Insertion - MIP

Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2014	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.053	7 / 2.088	- / -	- / -	- / -	8 / 2.141
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	5 / 1.035	16 / 1.893	- / -	- / -	21 / 2.928
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	6 / 0.636	12 / 2.780	- / -	18 / 3.416
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	12 / 1.827	22 / 3.349	34 / 5.176
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	362 / 167.160	362 / 167.160
Total	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.053	12 / 3.123	22 / 2.529	24 / 4.607	384 / 170.509	443 / 180.821

Installation Schedule

	PYS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	7	-	5	6	5	5	6	6	6	6	390	443
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-	5	6	5	5	6	6	6	396	443

Method of Implementation (Organic): Not Installed - CANES - Afloat First Articles - MIP

Installation Quantity: 13

Footnotes:

⁽¹⁾ CANES Afloat production units require an additional 4 months after delivery for operational integration, assembly and testing prior to installation start. Installs do not begin until 10 months after contract award (6 months production lead time + 4 months integration). Total Lead Time, including admin lead time, is 11 months. -First quarter installations reflected in the Installation Schedule are funded in the prior year

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Exhibit P-3a, Individual Modification: PB 2015 Navy		Date: March 2014
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Modification Number / Title: 1 / CANES-Afloat 5G010/5G777 MIP
<p>in order to be able to fund the installation contracts 90 days prior to the beginning of shipboard installation work. 90 days are needed to allow sufficient time for the contractor to plan the work schedule, order material, and perform necessary fabrication. This procedure allows installations to be scheduled in the first quarter thereby supporting Fleet availability. -Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platforms) has fewer users and runs fewer applications than a LHD/CVN (force level platforms). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. -Installation cost fluctuations are attributed to and dependent on class, level of the platform, variant of predecessor system the hull currently has installed (ISNS Alpha/Charlie/Delta/Legacy), and geographic location of the installation. As an example of variant differences, if a CVN has an ISNS Delta variant installed, a CANES installation is estimated to be \$11.2M. If that same CVN had a legacy ATM LAN the CANES installation is estimated to be \$16.4M. The legacy LAN installation has the additional cost of rewiring all the drops, while the newer variants of ISNS allow for reuse of drops during the CANES installation.</p> <p>(2) DSA funding is not required for the initial CANES Technical Insertion (TI) installs.</p> <p>(3) First articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. First articles are separate from production units and must be bought prior to the procurement of the corresponding production units. Procurement Lead Time (PLT) is 8 months for First Articles (DDG,CVN, submarines, etc). All following production articles of the same variant require a PLT of 6 months. CANES First Articles are not installed. Average unit cost fluctuations are attributable to variances in system configuration requirements among platforms. A DDG/CG/LSD (unit level platforms) has fewer users and runs fewer applications than a LHD/CVN (force level platforms). Force level platforms are larger in scale compared to the unit level ships and represent a super set of users, applications and connected systems. The FY13 procurement is two Force Level units; FY14 is two Force and one Unit Level units; FY15 and FY 16 are Unit Level procurements.</p> <p>(4) The NRE cost element reflects production engineering costs related to delivery of the first production units. These costs include CVN and DDG design hardware baseline updates required as a result of deficiencies found during the manufacturing process and updates to related production documentation, both of which are required prior to final acceptance by the government.</p> <p>(5) FY 2014 Contractor and location will be defined once Full Deployment contract is awarded.</p> <p>(6) FY 2015 Contractor and location will be defined once Full Deployment contract is awarded.</p>		

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Exhibit P-3a, Individual Modification: PB 2015 Navy		Date: March 2014
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP

Resource Summary	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO [#]	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
Procurement Quantity (<i>Units in Each</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Cost (\$ <i>in Millions</i>)	3.231	0.562	0.950	-	-	-	1.318	4.528	6.667	3.215	48.083	68.554
Less PY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Net Procurement (P1) (\$ <i>in Millions</i>)	3.231	0.562	0.950	-	-	-	1.318	4.528	6.667	3.215	48.083	68.554
Plus CY Advance Procurement (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Total Obligation Authority (\$ <i>in Millions</i>)	3.231	0.562	0.950	-	-	-	1.318	4.528	6.667	3.215	48.083	68.554
(The following Resource Summary rows are for informational purposes only. The corresponding budget requests are documented elsewhere.)												
Initial Spares (\$ <i>in Millions</i>)	-	-	-	-	-	-	-	-	-	-	-	-
Gross/Weapon System Unit Cost (\$ <i>in Thousands</i>)	-	-	-	-	-	-	-	-	-	-	-	-

[#] The FY 2015 OCO Request will be submitted at a later date.

Description:

The consolidation of existing Afloat Network programs of record designed to provide an agile, responsive Common Computing Environment (CCE) and the eventual addition of Afloat Core Services (ACS) within and upon which application developers will host Command and Control, Warfare, Intelligence, Logistics, and business and education applications and services for Maritime Operation Command (MOC), Regional Network Operations and Security Centers (RNOSC) and Technical Training Equipment (TTE).

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Exhibit P-3a, Individual Modification: PB 2015 Navy									Date: March 2014				
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell					Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP				
Models of Systems Affected: Consolidated Afloat Networks & Enterprise Services (CANES) MIP				Modification Type: [No Modification Type Specified]				Related RDT&E PEs: 0303238N					
Financial Plan	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total	
	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	
Procurement													
<i>Modification Item 1 of 1:</i> CANES - Ashore 5G010/5G776 MIP													
B Kits													
Recurring													
1.1.1) CANES-Ashore Production Units MIP - NonOrganic ⁽⁷⁾	- / -	1 / 0.288	2 / 0.497	- / -	- / -	- / -	1 / 0.142	1 / 1.787	2 / 2.951	1 / 1.511	2 / 3.685	10 / 10.861	
1.1.2) CANES - Ashore Technical Insertion - MIP - NonOrganic	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.203	2 / 0.334	- / -	27 / 25.726	30 / 26.263	
<i>Subtotal: Recurring</i>	- / 0.000	- / 0.288	- / 0.497	- / -	- / -	- / -	- / 0.142	- / 1.990	- / 3.285	- / 1.511	- / 29.411	- / 37.124	
Non-Recurring													
1.2.1) CANES - Ashore First Articles - MIP - Organic ⁽⁸⁾	1 / 3.231	- / -	- / -	- / -	- / -	- / -	1 / 1.010	- / -	- / -	- / -	- / -	2 / 4.241	
<i>Subtotal: Non-Recurring</i>	- / 3.231	- / -	- / -	- / -	- / -	- / -	- / 1.010	- / -	- / -	- / -	- / -	- / 4.241	
<i>Subtotal: CANES - Ashore 5G010/5G776 MIP</i>	1 / 3.231	1 / 0.288	2 / 0.497	- / -	- / -	- / -	2 / 1.152	2 / 1.990	4 / 3.285	1 / 1.511	29 / 29.411	42 / 41.365	
<i>Subtotal: Procurement, All Modification Items</i>	- / 3.231	- / 0.288	- / 0.497	- / -	- / -	- / -	- / 1.152	- / 1.990	- / 3.285	- / 1.511	- / 29.411	- / 41.365	
Support (All Modification Items)													
2.1) CANES - Ashore Production Support (MIP)	- / -	- / 0.015	- / 0.026	- / -	- / -	- / -	- / 0.007	- / 0.105	- / 0.173	- / 0.080	- / 1.548	- / 1.954	
2.2) CANES - Ashore Design Service Agent (MIP)	- / -	- / -	- / -	- / -	- / -	- / -	- / 0.053	- / 0.235	- / 0.136	- / 0.111	- / 0.168	- / 0.703	
<i>Subtotal: Support</i>	- / 0.000	- / 0.015	- / 0.026	- / -	- / -	- / -	- / 0.060	- / 0.340	- / 0.309	- / 0.191	- / 1.716	- / 2.657	
Installation													
<i>Modification Item 1 of 1:</i> CANES - Ashore 5G010/5G776 MIP	- / 0.000	- / 0.259	- / 0.427	- / -	- / -	- / -	- / 0.106	- / 2.198	- / 3.073	- / 1.513	- / 16.956	- / 24.532	
<i>Subtotal: Installation</i>	- / 0.000	- / 0.259	- / 0.427	- / -	- / -	- / -	- / 0.106	- / 2.198	- / 3.073	- / 1.513	- / 16.956	- / 24.532	
Total													
Total Cost (Procurement + Support + Installation)	3.231	0.562	0.950	-	-	-	1.318	4.528	6.667	3.215	48.083	68.554	

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Exhibit P-3a, Individual Modification: PB 2015 Navy							Date: March 2014					
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10				P-1 Line Item Number / Title: 2925 / CANES Intell				Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP				
Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP												
Modification Item MDAP/MAIS Code:												
Manufacturer Information												
Manufacturer Name: Northrop Grumman Systems Corp.							Manufacturer Location: >Herndon, VA					
Administrative Leadtime (in Months): 2							Production Leadtime (in Months): 4					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates	Dec 2012											
Delivery Dates	Apr 2013											
Manufacturer Name: TBD ⁽⁹⁾							Manufacturer Location: >TBD					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 5					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates		Mar 2014										
Delivery Dates		Sep 2014										
Manufacturer Name: TBD ⁽¹⁰⁾							Manufacturer Location: >TBD.					
Administrative Leadtime (in Months): 1							Production Leadtime (in Months): 5					
Dates	FY 2013	FY 2014	FY 2015	FY 2016	FY 2017	FY 2018	FY 2019					
Contract Dates			Nov 2014									
Delivery Dates			Apr 2015									
Installation Information												
Method of Implementation: [none specified] : Installation Name: CANES-Ashore Production Units MIP												
Installation Cost	Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total
	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)	Qty (Each) / Total Cost (\$ M)
Prior Years	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2013	- / -	1 / 0.259	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.259
FY 2014	- / -	- / -	2 / 0.427	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.427
FY 2015	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -
FY 2016	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.106	- / -	- / -	- / -	- / -	1 / 0.106
FY 2017	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.826	- / -	- / -	- / -	1 / 1.826
FY 2018	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 2.956	- / -	- / -	2 / 2.956
FY 2019	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 1.513	- / -	1 / 1.513
To Complete	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 3.655	2 / 3.655
Total	- / -	1 / 0.259	2 / 0.427	- / -	- / -	- / -	1 / 0.106	1 / 1.826	2 / 2.956	1 / 1.513	2 / 3.655	10 / 10.742

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Exhibit P-3a, Individual Modification: PB 2015 Navy																							Date: March 2014								
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10										P-1 Line Item Number / Title: 2925 / CANES Intell										Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP											
Modification Item 1 of 1: CANES - Ashore 5G010/5G776 MIP																															
Modification Item MDAP/MAIS Code:																															
Installation Information																															
Method of Implementation: [none specified] : Installation Name: CANES-Ashore Production Units MIP																															
Installation Schedule																															
	PYS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	1	2	10
Out	-	-	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	3	10
Method of Implementation: [none specified] : Installation Name: CANES - Ashore Technical Insertion - MIP																															
Installation Cost		Prior Years	FY 2013	FY 2014	FY 2015 Base	FY 2015 OCO	FY 2015 Total	FY 2016	FY 2017	FY 2018	FY 2019	To Complete	Total																		
		<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>	<i>Qty (Each) / Total Cost (\$ M)</i>																	
Prior Years		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2013		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2014		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2015		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2016		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
FY 2017		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.372	- / -	- / -	- / -	1 / 0.372																		
FY 2018		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	2 / 0.117	- / -	- / -	2 / 0.117																		
FY 2019		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -																		
To Complete		- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	- / -	27 / 13.301	27 / 13.301																		
Total		- / -	- / -	- / -	- / -	- / -	- / -	- / -	1 / 0.372	2 / 0.117	- / -	27 / 13.301	30 / 13.790																		
Installation Schedule																															
	PYS	FY 2013				FY 2014				FY 2015				FY 2016				FY 2017				FY 2018				FY 2019				TC	Tot
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4		
In	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	-	27	30
Out	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	2	-	-	-	27	30
Method of Implementation (Organic): Not Installed - CANES - Ashore First Articles - MIP																															
																							Installation Quantity: 2								
Footnotes:																															

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Exhibit P-3a, Individual Modification: PB 2015 Navy		Date: March 2014
Appropriation / Budget Activity / Budget Sub Activity: 1810N / 02 / 10	P-1 Line Item Number / Title: 2925 / CANES Intell	Modification Number / Title: 2 / CANES - Ashore 5G010/5G776 MIP

⁽⁷⁾ - Ashore procurement quantities are detailed as follows: Technical Training Equipment (TTE) - FY13 (1), FY14 (2), FY15 (0), FY16 (1), FY17 (0), FY18 (0); Maritime Operation Command (MOC) - FY13 (0), FY14 (0), FY15 (0), FY16 (0), FY17 (1), FY18 (2), FY19 (1). -A MOC is a fully operational system configuration. A TTE configuration is a subset of a MOC configuration. This scale difference accounts for the fluctuation in per unit costs across fiscal years commensurate with the procurement quantities outlined in above note. -TTE has no associated DSA requirements.

⁽⁸⁾ Production Lead Time is 8 months for First Articles. First Articles are defined as necessary production design drawings, environmental (shock and vibration) qualifications, logistics and training artifacts as well as a certified tested baseline provided to the government for each platform first of its kind. All following articles of the same variant require a Production Lead Time of 5 months for Ashore units and 6 months for afloat units. Total Ashore lead time, including 1 month Admin lead time, is 6 months. Ashore production lead times require one month less than Afloat production lead times due to the long lead time afloat production quality racks and minimized shock and vibration requirements for shore facilities. CANES First Articles are not installed.

⁽⁹⁾ FY 2014 Contractor and location will be defined once Full Deployment contract is awarded.

⁽¹⁰⁾ FY 2015 Contractor and location will be defined once Full Deployment contract is awarded.